



# Toxic Metals Sorbent Trap

## Gaseous Fuels

Imagine the day when a small 3-5/8" Toxic Metals Sorbent Trap replaces a complex and cumbersome EPA Method 29 setup of sample gas bubbling through a set of three impingers full of a hazardous mixture of nitric acid and hydrogen peroxide, all sitting in an ice bath, haphazardly perched on an upgrade skid in the middle of nowhere.

Imagine no longer as the day his here.

### Benefits include:

- Easy to Use
- No Hazardous Shipping
- About Half the Cost of EPA Method 29
- Expedited TAT Options Available

### Applications

- Wastewater Treatment Plants
- Food Waste Digesters (co-digestion)
- Dairy Farms
- Hog and Pig Farms
- Landfills
- Raw Biogas and Product Gas (RNG)
- Truck Offloading
- Process Control
- Interconnection Compliance

### Features and Benefits

- Small, lightweight and easy to use
- Samples like any other sorbent trap
  - No additional setup needed
- Can be ordered for next day delivery
- Sample extremely stable for long periods of time
- Same or improved sensitivity
- No hazardous shipping required
- Improved Turnaround Times (TAT) and Expediting options
- Dramatic cost savings
  - About half the cost of EPA Method 29

### Available Measurements

- Arsenic (As)
- Antimony (Sb)
- Lead (Pb)
- Copper (Cu)
- Chromium (Cr)
- Cadmium (Cd)
- Others





# Ohio Lumex Metals Sorbent Trap vs EPA Method 29

## EPA Method 29 Cons

- Cannot be ordered for next day/ASAP delivery
  - Many components to prep
  - Hazardous shipping
- Requires hazardous shipping
- Requires handling of hazardous chemicals
  - Nitric Acid
  - Hydrogen Peroxide
- Complex Sampling Requirements
  - Impinger Train Setup
  - Requires Ice Bath
  - Mixing & Rinsing Chemical Solutions
  - Preparation of Blank
  - Sixty (60) minutes of sampling
  - Dilute & Neutralize to Dispose of Chemicals
  - Over two (2) hours to complete
- Requires experienced sampling personnel
- Expensive

## Ohio Lumex Metals Sorbent Trap Pros

- No hazardous shipping
- No hazardous chemicals handling
- Can be ordered for next day delivery
- Samples like any other sorbent trap
  - Insert Sorbent Trap
  - Flow Sample for 30 Minutes
- Same or improved sensitivity
- Improved Turnaround Times (TAT) and Expediting options
- Dramatic cost savings
  - About half the cost of EPA Method 29
- Development Supported by both EPA and ASTM
  - EPA Method Pending
  - ASTM Standard Pending

The Metals Sorbent Trap is just another example of Ohio Lumex's ongoing effort to develop new and improved methods for this industry, leading to easier to sample, faster to analyze, and improved sensitivity and accuracy.

